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I N D E X

TO

BOOKS AND PAPERS

ON THE

PHYSICAL GEOGRAPHY, ANTIQUITIES,
AND STATISTICS OF INDIA.

BY GEORGE BUIST, LL.D.;

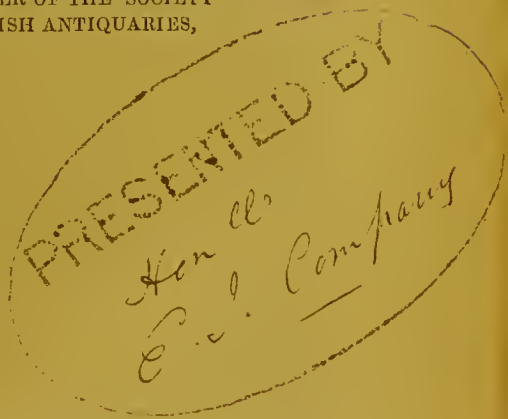
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&c. &c.



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PREFACE TO THE INDEX.

THE compilation of the following Index, chiefly meant to facilitate reference to the transactions of our learned Societies, the contributions bearing on physical research being given in alphabetical order, under the double arrangement of the titles of the papers and the names of the authors, was commenced in 1849. It was intended to have been appended to the Manual then projected by the Bombay Geographical Society, and before the publication which has since appeared under the auspices of Her Majesty's Lords of the Admiralty was known to have been in contemplation; and it was meant to relate mainly to such writings as a young geographer in India would desire to consult. As the Manual itself has become more bulky than was expected, and is likely to be mainly desired by travellers, it is intended to print off an impression of the Index, in a separate form, for the convenience of the general reader, and the plan has been accordingly made somewhat more comprehensive, and less definite than was at first contemplated. Although it was not expected that more than a skeleton would be within any reasonable time produced, a skeleton was looked for, possessed at the outset of considerable symmetry, such as might be filled up and completed by degrees after it was laid before the world. A long succession of attacks of sickness, followed by a very large addition of professional duty, has interfered with its completion on the original plan, and compelled me to call in assistance, which, without affording the aid I expected from it, has materially marred the uniformity of the whole, while the time required,

under the altered state of circumstances, to bring the Index into the condition at first contemplated, threatened so greatly to delay the issue of the Manual, that I thought it better to give it as it is than to defer it any longer. Those for whose accommodation it was intended will, I feel confident, prefer accepting it in its present most imperfect form, to waiting till it may have assumed a shape more nearly resembling that which was originally proposed to have been bestowed upon it, which it would probably not be able to receive for some years to come.

Should it afford the young geographer in the East the assistance intended, it may probably by-and-bye be considered worthy of being reprinted in our almanacs here, and at the other Presidencies,—successive supplements being added to, or incorporated with it, as circumstances may require.

One of the first difficulties encountered by a young man arriving in India, and desirous of improving the opportunities presented for observation, is to find out what has been done by others beforehand; and hundreds of occasions are every year lost by those who might otherwise have taken advantage of them failing to do so, from the apprehension that what seems new to them may be perfectly familiar to the world at large; or that they may be taking upon themselves a load of superfluous labour in examining, and incurring a risk besides of exposing their own ignorance in attempting to describe, things that have been already carefully examined and fully described by others.

At home, the information collected within the year is condensed from its primary form, and embodied in some general handbook almost as soon as it appears, and is reproduced in a hundred separate shapes in the numberless manuals or compendiums continually passing from the press, so that it is never far to seek for, or difficult to be come by: in India, on the other hand, it lies secluded for an infinite length of time in the various receptacles and depositories to which it was originally sent, the depositories themselves, in a majority of cases,

being in all likelihood inaccessible to those most desirous of consulting them. The private libraries amongst us are few in number, and very indifferently supplied. Public libraries are to be met with only at the Presidencies, and are of a limited extent, and most imperfectly provided with supplies, compared with kindred establishments at home. They are subjected to the double disadvantage of not probably possessing the information sought for, or of not being provided with a key by which it may be discovered.

In our Bombay libraries there are very few sets of serials complete, and the study of those we possess is constantly broken in upon by the volumes desired to be consulted being in the hands of, or being demanded by, other readers: our catalogues are so execrable as to render consultation troublesome in the extreme. These, and many other matters which might be enumerated, indicate the difficulties the general reader has to encounter, and may go some way to excuse the imperfections of the present Index.

The Indices of the best conducted of our Indian Journals possess no resemblance to what usually bear the name—they are nothing more than lists of the papers, given in the most imperfect form, in alphabetical order. The entire works must be carefully read through to be able to give a genuine Index to their contents, and those referred to amount to some 200 closely printed volumes. With the European publications this source of perplexity disappears.

The following short sketch will indicate the principal sources of reference that have been resorted to, but so full are these, as found in our libraries, of imperfections, that I am by no means certain that the sketch itself is accurate. The errors into which I have fallen will not, it is hoped, be found to occasion so much inconvenience as not to be counterbalanced by the accommodation the Index itself will afford.

It is somewhat curious, that the three most distinguished Societies we possess in India have all been brought into exist-

ence, and organized by the presiding Judges of Her Majesty's Courts of Justice. Sir William Jones, by far the most illustrious amongst those referred to, whose name still stands unsurpassed among Orientalists in India, was the father of the earliest and most renowned of them all,—the Bengal Asiatic Society,—which, under its founder, and first president, at once obtained a degree of celebrity that has never since been surpassed; and it is by one or other of the Judges of the Supreme Court that it has for many years past for the most part been presided over. It is to Sir James Mackintosh that Bombay owes the foundation of its Literary Society, brought into existence in 1806, and in 1828 adopted as a Branch by the Royal Asiatic Society of London. It is at present, under its new designation, presided over by Chief Justice Sir Erskine Perry, a ripe Orientalist, and general scholar. The Madras Literary Society was founded by Sir John Newbold, too soon removed from the charge of the Institution he established, but who left in his son, the late Captain Newbold, one of the most distinguished contributors to its Transactions, and one of the most indefatigable of our geologists and Oriental scholars.

The Bengal Asiatic Society was founded in 1784, the Governor General and Members of Council having expressed the warmest interest in its objects, and the greatest anxiety to promote them. Mr. Warren Hastings, the Governor General, declined to become its president, on the score of his dislike to occupy the first place in the Society, in which his position as a scholar must be second to many of those over whom it would be his duty to preside, and with whom he was unwilling to be placed in a state of comparison from which he could not fail to suffer, and Sir William Jones was accordingly elected. The address of this illustrious man, prefaced to the first of a series of volumes to which Europe owes so much of the knowledge she possesses of the East, is still pointed to as a model of excellence.

The Transactions of the Bengal Asiatic Society were printed at Calcutta in quarto, under the title of "Asiatic Researches."

The 1st volume appears to have issued from the press in 1788, and for the next twelve years, a volume of the *Researches*, containing from four to five hundred pages quarto, was annually presented to the world.

They continued to be issued in this shape till 1836, when the twentieth volume was published, and when they were first provided with a general alphabetical Index—a mere list of names, a key most unworthy to the noble work whose treasures it was intended to unlock. So highly valued was the information contained in the *Asiatic Researches*, that by the year 1806 four editions had been published in London of the earlier volumes : these were printed in an octavo form.

In 1832 the Bengal Asiatic Society passed a resolution, that the monthly journal hitherto issued under the name of “*Gleanings in Science*” should be permitted to assume that of the *Journal of the Society*, and be published under the charge of the Secretaries, and in this form it has continued to be printed ever since : the *Researches* were continued contemporaneously with the *Journal* till 1836 : since then the former has been the only work the Bengal Asiatic Society has produced. The *Journals* and *Researches* together consist of forty large volumes, and extend over a period of sixty-three years.

The *Transactions of the Agricultural Society of Bengal* is the only other serial that I am aware of provided by any Calcutta Society, and to this, from its nature, I have but rarely applied.

The *Calcutta Journal of Natural History* was commenced in 1840 by Dr. Clelland. I have only seen the first three volumes : they are full of matter of interest, and have been repeatedly quoted in the Index.

The *Indian Journal of Medical and Physical Science*, published betwixt the year 1834 and 1844, and the *India Review and Journal of Foreign Science and Art*, commenced and closed some two years later, each extending to some eight or

ten volumes, were edited by Dr. Corbyn. They are chiefly made up of selected matter, but contain some original papers of merit. They possess excellent alphabetical Indices, and are both works of considerable value, though of uncouth aspect. Their contents are in the last degree miscellaneous.

The Madras Literary Society was established in 1818, under the auspices of Sir John Newbold, Chief Justice, afterwards its President: their meetings appear to have been frequent, and their discussions interesting. Outlines of their proceedings appear in the newspapers of the day. I have not been able to discover where the earlier of their papers were published. In 1827 they commenced the publication of a Journal; the first number is in quarto, printed in London; the subsequent numbers are in octavo—two parts, of 200 pages each, published half-yearly, in numbers, constituting a volume for the year. Tables of contents and alphabetical Indices are prefixed or appended to each. The papers themselves are of great interest and value. They now, I believe, occupy about twenty volumes, although I have only seen the first ten, and a few stray papers or casual numbers: they do not seem to exchange with the other Societies, and rarely reply to letters when written to.

I am not aware of any other Scientific Society which publishes Transactions at Madras. The Engineers print their reports for private circulation; but, though full of matter of interest, which ought to be generally known, the work can only be referred to by those belonging to the Corps, and on the special condition of its not being promulgated. The Medical Board at Madras has long been distinguished for the admirable Reports on Medical Topography prepared under its supervision; and if these have seldom been referred to, it is because of the nature of the subjects of which they treat. The reports of the Madras Astronomical Observatory, commenced in the time of Sir Thomas Munro, were prepared by Mr. Goldingham in three volumes folio. They treat of a considerable variety of matters, and are of much interest to the meteorologist as well as to the astronomer. The Magnetic and Meteo-

rological Reports by Mr. Taylor have been published from 1841 to 1846, and the publication continues in progress under the present eminent astronomer, Major Jacob.

The Bombay Literary Society was brought into existence in 1806, chiefly through the exertions of Sir James Mackintosh. We have scarcely any record of its earlier proceedings. It had till many years after this not been the custom here to publish the reports of our Societies, or of more indeed than a selection from the papers forwarded them, deemed worthy of their Transactions. The Transactions of the Bombay Literary Society were printed in London, in quarto form, in the years 1814, 1816, and 1819 respectively. The publication was discontinued on the issue of the third volume, on the score, it is presumed, of the expense. They have long been out of print, and, being full of matter of the greatest value, are about to be re-issued in octavo form. From this date, Bombay Orientalists seem to have forwarded their contributions to Calcutta, or to the Royal Asiatic Society of London, in whose Transactions they appear. The Literary Society was in 1828 re-organized, and became a Branch of the Royal Asiatic Society of London. In 1841 it commenced publishing a Journal in octavo form, which has now reached the fourth volume, and contains many papers of value; each volume has an alphabetical Index at the end.

The Bombay Geographical Society came into existence in 1832, when a vigorous system of survey was in operation, and a noble spirit of inquiry abroad. At this time arrangements were in progress for the opening up of the route by the Mediterranean, either by the Red Sea or the Persian Gulf, betwixt India and Europe—the paths in either case requiring most careful examination. The geography of the little known countries betwixt the British frontier and the Sutlej, and betwixt this again and the Indus, and of the vast plateau of Central Asia betwixt the Chinese frontier and the Caspian, was being explored, and some local organization was requisite for assisting travellers in their labours, and placing their researches before the world. The Bombay association was at

the outset a branch of the Royal Geographical Society of London, and its papers appeared in the home Transactions, a local publication at the first having been considered unnecessary. The Society proposed devoting its energies to the establishment of a library and museum, and it intended to keep a supply of instruments on hand, to be lent out to those who might desire to make use of them—a plan more liberal than practicable, the instruments in general never being returned at all, or being sent back unserviceable. Their object was to devote themselves to the pursuit of geography in the widest sense of the term, and to inquire into the climate, geology, hydrography, botany, and population of countries, as well as into their position, form, and boundaries. Its purpose seemed to have been to become a working corporation, prepared to plan and superintend the carrying out of investigations, rather than a mere receptacle for papers that might be sent to it for publication. In 1835 it was resolved to commence the publication of a series of Transactions of his own, abundant material for these having been procured by the officers engaged in public surveys then in progress—and the profusion of matter of a purely geographical nature at their command caused their researches into other sub-divisions of the science to be for a time laid aside, to be resumed in a somewhat more extended form afterwards, when hydrographical matter began to fail. The earlier numbers of the Transactions having fallen out of print, were reprinted in 1842; up to the present time nine volumes have been published, of 350 pages each.

The Transactions of the Bombay Medical and Physical Society commenced in 1838, and amount to ten numbers, or volumes: they were provided with a good separate Index in 1852. They afford but a moderate number of papers capable of being taken advantage of, and the same is the case with the Transactions of the Agricultural Societies both of Bombay and Calcutta.

The various London Societies, the Transactions of which I have quoted, are too well known to require to be more than alluded to.

The following are the periodical publications that have been chiefly consulted, with the contractions made use of in quoting them : the titles of many of them so closely resemble each other, that care must be taken in referring to the contractions resorted to, (to save space and printing,) otherwise confusion will be apt to arise. I have in the abbreviations called the Journals of all the learned Societies by the name of *Trans.* (Transactions), for the sake of uniformity ; they being all in reality works of exactly the same general character, though sometimes assuming the one title, sometimes the other, so as to distinguish them from works called Journals which are not in reality records of the proceedings of learned bodies at all.

TITLES OF WORKS REFERRED TO.

BENGAL.—Asiatic Researches, from 1788 to 1836, 20 vols. quarto, Calcutta Edition.—*As. Res.*

The Journal of the Bengal Asiatic Society, from 1831 to 1851, 19 vols. 8vo.—*Bl. As. Trans.*

Prinsep's *Gleanings in Science*, 3 vols. 8vo.—in full.

The Transactions of the Bengal Agricultural Society.—*Bl. Agri. Trans.*

The Calcutta Journal of Natural History, 3 vols. 8vo. 1842 to 1845.—*Cal. Jl. Nat. Hist.*

Corbyn's India Review—in full.

Corbyn's Medical Journal—in full.

The *India Journal of Medical and Physical Science*, edited from 1843 to 1845 by Dr. Eveleigh—from 1845 by Dr. Finch—in full.

The Quarterly Medical and Surgical Journal N. W. P. from 1844—in full.

Bengal Sporting Review.—*Bl. Sptg. Rev.*

Calcutta Review, vols. i.—xviii., from 1844 to 1851.—*Cal. Rev.*

MADRAS.—Journal of the Madras Literary Society from 1827 to 1851. I have not seen the last ten volumes.—*Mad. Lit. Trans.*

BOMBAY.—Transactions of the Bombay Literary Society, from 1806 to 1819, 3 vols. 4to.—*Bom. Lit. Trans.*

Transactions of the Bombay Geographical Society, from 1835 to 1852, 10 vols. 8vo.—*Bom. Geo. Trans.*

The Journal of the Bombay Branch of the Royal Asiatic Society, 5 vols. 8vo., from 1841 to 1852.—*Bom. As. Trans.*

Transactions of the Bombay Medical and Physical Society, from 1838 to 1851, 5 vols. 8vo.—*Bom. Med. and Phys. Trans.*

Transactions of the Royal Society of London.—*Phil. Trans.*

Transactions of the Royal Geographical Society of London.
Lond. Geo. Trans.

Transactions of the Royal Asiatic Society of London.—*Lond. As. Trans.*

Transactions of the Geological Society of London.—*Lond. Geol. Trans.*

Reports of the British Association from 1832 to 1850, 17 vols. 8vo.—*Rep. Brit. Ass.*

The Asiatic Journal from 1816 to 1844, 69 vols. ; old series, to 1829, 27 vols. 8vo. ; new series, to 1842, 38 vols. ; third series, 1842 to 1844, 4 vols. 8vo.—*As. Jl.*

The titles of all the other periodicals and of all the books referred to are given in full.

The Governments of the North West Provinces, of Bengal, and Bombay, have of late years published a series of very valuable papers—Selections from the Public Records : these have been freely drawn upon, and quoted under their proper titles. They are full of most valuable information.



I N D E X.

A

- Abbott, Capt. James, Bengal Artillery, a Cadet of 1821; Revenue Survey 1834—1838; Assistant Political Agent at Heerat 1847; Commissioner on the Punjaub borders. Journey from Khiva to St. Petersburg, in 1841-42. Lond. 1843, 2 vols. 8vo.—On kunkur formations. Bl. As. Trans. 1845, vol. xiv. 442.—On the manufacture of the matchlocks of Koteli. Ibid, 1848, vol. xvii. 277.—Account of a remarkable aerolite which fell at the village of Manicgaom, near Eldulabad, in Khandeish. Ibid, 1844, vol. xiii. 880.—Account of the manufacture of Damascus blades. Ibid, 1847, vol. xvi. 417.—Account of the process of obtaining gold from the sand of the river Beas. Ibid, 206.—Account of the extraordinary flood in the Indus, in April 1841, from the mouths of natives. Ibid, 1841, vol. x.; Edin. Phil. Jl. 1842.—Remarks on Greek sculptures of Potawar. Ibid, 1849, vol. xviii. On the battle-field of Alexander and Porus. Ibid, vols. xvii. xviii.—Lists of the ryots of Sealkote. Ibid.—On the cities of Nikala and Boukephalon. Ibid, 1852, 214.
- Aboo, mount, a magnificent mass of mountain in the western extremity of Ajmeer, lat. $24^{\circ} 36'$ N., long. $73^{\circ} 25'$ E.; about 5,000 feet in height; a fine lake on the top of the hill (drawings by Grindlay); mountain covered with magnificent Jain temples, of extraordinary costliness and beauty (drawings of in Grindlay's Views of Western India); subject to frequent shocks of earthquake; much resorted to from Deesa in the hot season. Col. Tod's description of. Travels in Western India. 1 vol. 4to.; Asiatic Observer; quoted by As. Jl. 1824, vol. xviii.; Delhi Gazette 17, and Bombay Times 29 April 1847.
- Dr. Robson's description of. Bombay Times, 1840.
- Earthquakes at, in 1848. Ibid, June 1848-49.
- Sanskrit inscriptions at. Il. H. Wilson on. As. Res. 1828, vol. xvi. 284.
- Aboriginal tribes of the Himalayas. Orient. Chris. Spec. 1842, vol. iii. second series, I—4.
- of India. General Briggs on. Edin. Phil. Jl. 1851, 331.
- Hindoos, Language of. Dr. Stevenson on. Bom. As. Trans. vol. i. 163.
- Aborigines of India, their languages, &c. H. B. Hodgson on. Bl. As. Trans. 1847, vol. xvi.
- of the Sub-Himalayas. Addenda et corrigenda on. H. B. Hodgson. Ibid, 1848, vol. xvii. 73.
- Vocabulary of language of, of Southern India. H. B. Hodgson. Ibid, 1849, vol. xviii.
- of North-eastern India. Ibid.
- of the Neigherry Hills—Buddagars, Todawars, Cotters, and Mulhecurumbers. Col. Lambton on. Bom. Geo. Trans. vol. iv. 23.
- Ainslie on atmospheric influences on health of. Lond. As. Trans. vol. i.
- of Central India. H. B. Hodgson. Bl. As. Trans. 1848, vol. xvi. 551.
- Aeheen. Account of. J. Anderson. Lond. 1840.
- Genealogy of Mahomedan kings of. Newbold. Mad. Lit. Trans. vols. iii. 54; iv. 117.
- Act, copy-right. Notice of. Friend of India, 1841, 675; 1842, 738, 755, 772; 1845, 803; 1847, 196.
- Apprenticing. Ibid, 1846, 723; 1849, 580; Bombay Times, November 21, 1846; February 9, 1848; May 21, and June 1, 1850.

- Acts of the Governor General in Council. Calcutta Review on. 1847, vols. vii. ; viii. 329 ; 1848, vol. ix. 113, 319 ; 1849, vol. xi.
- Index to Acts passed betwixt 1834 and 1849, 1 vol. 4to. J. Small. Calcutta, 1851.
- Adam, William. Reports on the state of education in Bengal and Behar, in 1830 and 1838. Calcutta Review on. 1841, No. iv. ; As. Jl. 1838, vol. xxvii. ; leaves India, 223.
- Dr. J., Bengal Medical Service ; Secretary to the Bengal Medical Board ; Founder of the Calcutta Medical Society. Geology of Buddeleund and Jubbulpore. Memorandum on. Bl. As. Trans. 1842, vol. xi. 392.—Account of Barren Island, Bay of Bengal. Ibid, vol. i.
- Adam's Peak, in the island of Ceylon. Sketch of journey to summit of. As. Jl. 1816, vol. xi. 137 ; Ceylon Almanac.
- Bridge, and Ramiseram temple and island, near Manaar. Account of. Lieut. Christopher. Bom. Geo. Trans. 1844, vol. vii. 130.
- Account of. Dr. Wilson. Lands of the Bible, vol. i. 9—25 ; Bruce's Travels.
- Haines' description of peninsula, shores and climate. Lond. Geo. Trans. vols. ix. xv.
- Salt's account of. Travels.
- Medical topography of. Bombay Times, January 16, 1830 ; Corbyn's India Review, vol. iii. ; Bom. Med. and Phys. Trans. 666.
- ulcers. Dr. Campbell on. Bom. Med. and Phys. Trans. ; reprinted Ind. Jl. of Med. and Phys. Se.
- Description of. Foster. Bom. Geo. Trans. 1839.
- Description of. Dr. Duff. Home and Foreign Missionary Record, 1840 ; Bombay Times, 1840, 467.
- Account of. Lieut. Col. Mignon. Almanac, 1842.
- F. Burr's account of. Lond. Geol. Trans. 1841, vol. vi. 30 ; Bom. As. Trans. vol. i. 84 ; Ind. Rev. 1842, vol. vi.
- Geology of. Dr. Malcolmson. Lond. As. Trans.
- Ancient inscription at. (See Haines.)
- Account of quicksilver found at. Bombay Times, 1843 ; Bom. As. Trans. 1843, vol. i. 341.
- Report on. Dr. Arbuckle. Bom. Geo. Trans. vol. i. 302.
- Memoir on coast north of. Ibid, 19.
- M. D'Abbadie's account of. Ibid, 12.
- On specimens of lava from, compared with that of Aden. Dr. Buist. Bom. As. Trans. vol. i.
- Remarkable currents in gulf of, betwixt the Arabian and African shores. Haines on. Lond. Geo. Trans. 1848. Supposed to arise from the influence of the winds, or variations in the character of the water in the Red Sea.
- Discovery of fluor spar in lava of. Dr. Giraud on.
- Botany of. Edgeworth's couple of hours' herborization at. Bl. As. Trans. 1847, vol. xvi. 1211.
- Sailing directions from cape and bay of, to Straits of Babelmandeb. Haines' memoir on S. E. Coast of Arabia. Lond. Geol. Trans. vol. xvi. 150.
- Climate of, and observatory at. Notice of observations. Mayes. Bom. Geo. Trans. 1852. Preface by Dr. Buist.
- Adansonia digitata, monkey bread-fruit ; tree of remarkable size, 45 feet in circumference. Description of, destroyed in a single season by capricorn beetle. Bom. As. Trans. vol. i. 130.
- Description of. Forbes' Memoirs, vol. iv. 84 ; Description of Mandu, 73-74.
- There are three of these trees at Allahabad, and three at Agræ.
- Adhikanan, a poet of the Dekkan. Memoir of. Lond. As. Trans. vol. i. 141.
- Adoption of heirs by Hindoo chiefs. Right of, universally admitted. Blue Book, 1850 ; Bombay Times, May 1850.
- Ærolites. Account of a remarkable, which fell at the village of Maniegaom, near Eidulabad, in Khandeish. Capt. J. Abbott. Bl. As. Trans. 1844, vol. xiii. 880.
- Account of one which fell at Rajamundry. Mad. Lit. Trans. vol. xiii. 164.
- Dr. Buist's list of. Bom. Geo. Trans. 1850, vol. ix.—Professor Powell on. Rep. Brit. Ass. 1847—1852. (See Meteors.)
- Affghanistan. Comparative geography of. (See Rawlinson.)
- Topography of. Dr. Robertson on. Cal. Jl. Nat. Hist. vol. ii.

- Afghanistan. Visit to Ghuznie, Cabool and Afghanistan. (See Vigne.)
- Objects of research in. (See Lassen.)
- Memoir on the climate, soil, &c. of. Irwin on. Bl. As. Trans. 1841.
- Northern. Mines of. (See Drummond.)
- Reports on subjects connected with. Dr. Griffiths on. Bl. As. Trans. 1841, vol. x. 797.
- Accounts of. (See Elphinstone, Sale, Greenwood, Havelock, Kennedy, Ouchterlony, Atkinson, Strange, Connolly, Burnes, Masson, H. H. Wilson.)
- Moral view of the population of. As. Jl. 1816, vol. xi. 142.
- Expedition into. Dr. Atkinson. Lond. 1842, 1 vol.
- History of war in. J. W. Kaye. Lond. 1851, 2 vols. 8vo.—Calcutta and North British Reviews on. October 1851.
- March through, and Scinde. Revd. Mr. Allen. Lond. 1848, 1 vol.
- Antiquities of. (See Wilson.)
- Description of. Masson's Journeys.
- Political staff in. Friend of India, 1841, 355.
- Trade with. Bl. As. Trans. 1841, vol. x. 479; Edin. Phil. Jl.; Bombay Times, 1841, 417, 434, 497, 512, 593.
- Notice of some land and fresh water shells occurring in. Capt. T. Hutton. Bl. As. Trans. 1848, 62.
- Eusofzaie tribes of. Notes on. Capt. Connolly. Ibid, 1840, vol. ix. 924.
- and Scinde. On the operations of the British Troops in. Dr. Buist. Bombay, 1843, 1 vol. 8vo.
- Afghans and Seikhs, in connexion with India and Persia. Shahamet Ali Meer, Moonshee to the Resident, Indore. Lond. 1847, 1 vol. 8vo.
- Africa. Expedition to the coast of. Lond. As. Trans. vol. i. 161.
- Eastern. Commercial and geographical view of. Dr. Bird. Bom. Geo. Trans. 1840, vol. iii. 112.
- Observations during a voyage of research on the east coast of, from Cape Guardafui south to the island of Zanzibar. Capt. T. Smee and Lieut. Hardy. Ibid, 1841—1844, vol. vi. 23.
- Remarks on the N. E. coast of, and the various tribes by which it is inhabited. Lieut. C. P. Rigby, 16th Regt. Bo. N. I. Ibid, 69.
- Agalamatolite, or figure stone—Jameson; Phillips called it pagodalite, from always being imported from China in figures, pagodas, &c.; also sammy, or swammy, *i. e.* god stone; found in quantities near Chota Nagpoor. Col. Onasley on. Bl. As. Trans. 1843, 923; Reports 63.
- Agastya, a great Tamul author. Memoir of. Lond. As. Trans. vol. iii. 213.
- Agastyan, a celebrated Tamul poet. Memoir of. Ibid, vol. i. 140.
- Agriculture of Hindustan. Duncan. Journal of Highland Society of Scotland.
- of Southern Mahratta Country. Observations on. Dr. T. Christie. Mad. Lit. Trans. vol. iv. 452.
- of the Deccan. Dr. Gibson on. Lond. As. Trans. 1846, 93.
- of Cutch and Goozerat. Col. Melvill on. Bom. As. Trans. vol. i.
- of Afghanistan and adjoining countries. Lieut. Irwin on. Bl. As. Trans. 1839, vol. viii.
- Agricultural Dictionary. Loudon.
- capabilities of India. As. Jl. 1830, vol. xx. part 2, 90; Meerut Universal Magazine, vols. iii. iv.; Colebrooke's Husbandry of Bengal.
- implements in Hindustan. Heyne on.—Capt. G. Wingate's journal on.
- in Malabar and Canara. Dr. F. Buchanan on. Travels, vol. iii. 239; in Mysore, 323; in Malabar, 38; plates.
- Ahmedabad, Journal of march from, to Sukkur, in Upper Scinde. Capt. DeHoste. Bom. Geo. Trans. 1840, vol. iii. 145.
- Frightful disease that prevailed in zilla of, in the years 1817, 1818, and 1839. J. Gilder. Bom. Med. and Phys. Trans. vol. i. 190.
- Singular hollow in the collectorate of, supposed volcanic, called the Boke. Capt. Full-james. Bom. Geo. Trans. vol. vii. 161.
- Injuries sustained by, during the earthquake of 1819. (See Earthquakes, Burnes, McMurdo, Smith, Lyell.)
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——— of Gowack, on the Gulbarra. *Ibid.* 1820, vol. x. 432; *Lond. As. Trans.* vol. ii. 70.

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——— Yenna, Mahabuleshwar, 600 feet; Cauvery, 300 feet. Newbold. *Ibid.*

——— of Suboonreka, Chota Nagpore, and Hurroree Ghog—the falls 15, 20, and 400 feet respectively; about 500 feet across crest. Corbyn's India Review, 1840, 716.

Catechu, Terra Japonica; drug extracted from the roots and leaves of the mimosa catechu: tannic acid 54, extractive 34, mucilage 6, earthy matter 5; much used in medicine. (See Heyne, Royle, F. Buchanan, O'Shaughnessy, &c.) Mode of manufacture. Heyne. *Travels in India*, 184; *Bl. As. Trans.* vol. vii. 108; O'Shaughnessy's Bengal Dispensatory.

Cautley, Lieut. Col. P. T., Bengal Artillery; reached India in 1819; served in Oudh against refractory Zemindars in 1820-21; appointed to the canal department N. W. P. in 1825; at the siege of Bhurtpore in 1825-26; has continued in the canal department ever since his appointment in 1825, having been re-appointed on his arrival from furlough in 1847-48; has, in conjunction with Dr. Falconer, been much engaged in fossil discoveries in the Sevallick hills, a large collection of which (fossils) he presented to the British Museum; projector and designer of the Ganges canal, its alignment and its works. On a submerged city twenty feet under ground, near Behut, in the Doab. *Bl. As. Trans.* 1834, vol. iii. 43; *Ibid.* 1844, 127.—On fossil quadruman. *Ibid.* vol. vi. 351.—Use of wells, &c. in foundations, as practised in the Northern Doab. *Ibid.* vol. viii. 327.—Structure of the Sevallick hills. *Lond. Geol. Trans.* 1840, vol. v. part 2, 267.—Notice of a fossil monkey from the Sevallick hills. *Ibid.* part 3, 499.—Coal and lignite in the Himalayas. *As. Res.* 1820, vol. xvi. 387.—Description of *slvatherium giganteum*. *As. Res.* vol. xix. 1; fossil erocodile, Sevallick hills, 25; fossil gburial, 32; fossil hippopotamus, 29; fossil camel, 115; fossil tiger, 135; fossil bear, 193.—Gold washings in the Goomtl river, in the Sevallick hills, between the Jmna and Sutlej rivers. *Bl. As. Trans.* vol. iv. 279.—On a new species of snake. *Ibid.* 217.—*Mastodonta dentirostris*. *Ibid.* vol. v. 294.—*Mastodons* of Sevallicks. *Ibid.* 768.—Manufacture of tar in the Sevallick hills. *Ibid.* vol. ii. 249.—Pauclmikki, or corn mill. *Ibid.* 359.—Fossil giraffe. *Ibid.* vol. vii. 658.—Dam sluices. *Ibid.* vol. i. 451.—Remarks on the fortress of Alighur. Parbhy's Military Repository. *Ibid.* vol. iii. 86.—Caranunassa bridge. *Gleanings in Science*, vol. iii. 297.

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